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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,693	10/29/2003	Michael Shur	SETI-0007	5258
23550 7.	590 09/22/2006		EXAMINER	
HOFFMAN WARNICK & D'ALESSANDRO, LLC			ERDEM, FAZLI	
75 STATE STI	REET			
14TH FLOOR			ART UNIT	PAPER NUMBER
ALBANY, NY 12207			2826	
		DATE MAILED: 09/22/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)			
	10/696,693	SHUR ET AL.			
Office Action Summary	Examiner	Art Unit			
•	Fazli Erdem	2826			
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period with particular to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)☒ Responsive to communication(s) filed on <u>03 Ju</u> 2a)☐ This action is FINAL . 2b)☒ This 3)☐ Since this application is in condition for allowan closed in accordance with the practice under Expression.	action is non-final. ce except for formal matters, pro				
Disposition of Claims	•				
4) ⊠ Claim(s) 1-3,7,8,10,11,13-17,20,21 and 23-28 i 4a) Of the above claim(s) is/are withdraw 5) ⊠ Claim(s) 1-3,7,8,10,11,13-17,20,21,23-26 and 2 6) ⊠ Claim(s) 27 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	n from consideration. 28 is/are allowed.	· .			
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	pted or b) objected to by the E rawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

Application/Control Number: 10/696,693

Art Unit: 2826

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-3, 7, 8, 10, 11, 13-17, 20, 21, 23-26 and 28 allowed.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 27 rejected under 35 U.S.C. 103(a) as being unpatentable over Rockwood (4,236, 124) in view of Chevalier (5,767,969) further inv view of Kashiwa et al. (5,705,847)

Regarding Claim 27, Rockwood disclose a CO2 optically pumped distributed feedback diode laser where in Fig. 1, the bottom side of a heterodimensional diode 10 is shone a laser pulse 18 from the laser source 12. Rockwood fails to disclose the required adjustment of frequency of radiation using voltage applied to the heterodimensional diode and depletion width manipulation. However, Chevalier discloses a gyrometric detection method and sampled optical gyrometer to implement said method where in column 3 and in Fig. 4, the required adjustment of the frequency of the radiation using the voltage applied to the diode is disclosed. Furthermore, Kashiwa et al. disclose a semioconductor device where in column 10, the require depletion region width manipulation is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required frequency adjustment and the depletion Art Unit: 2826

region width manipulation in Rockwood as taught by Chevalier and Kashiwa et al., respectively, in order to have a semiconductor device with increased voltage performance and increased flexibility.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE

September 18, 2006